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*Fig. 1*

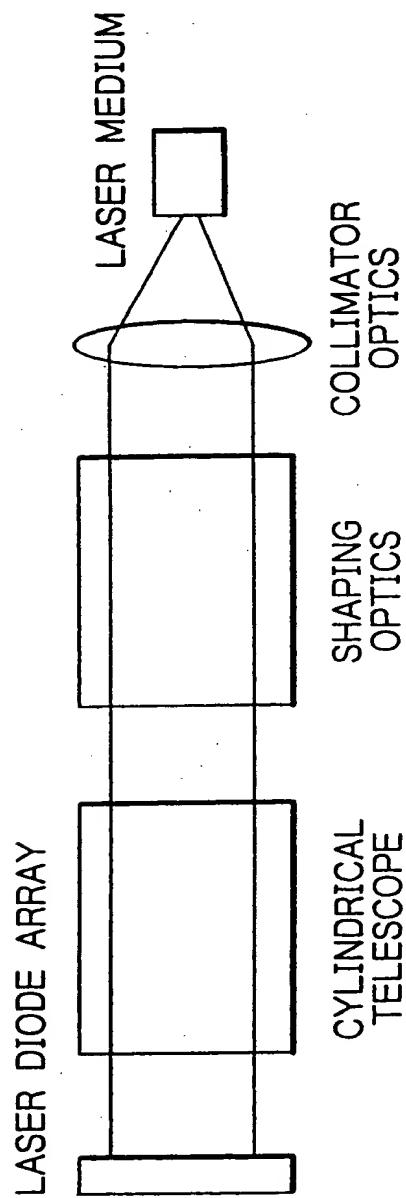




Fig. 2

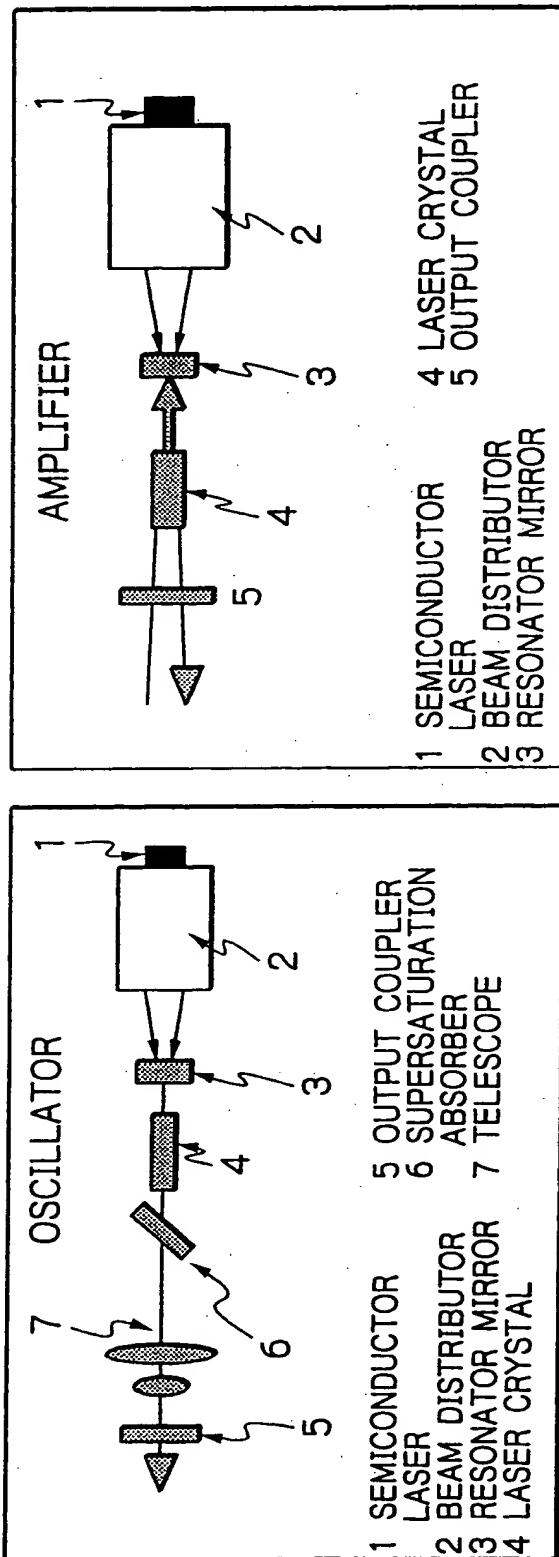
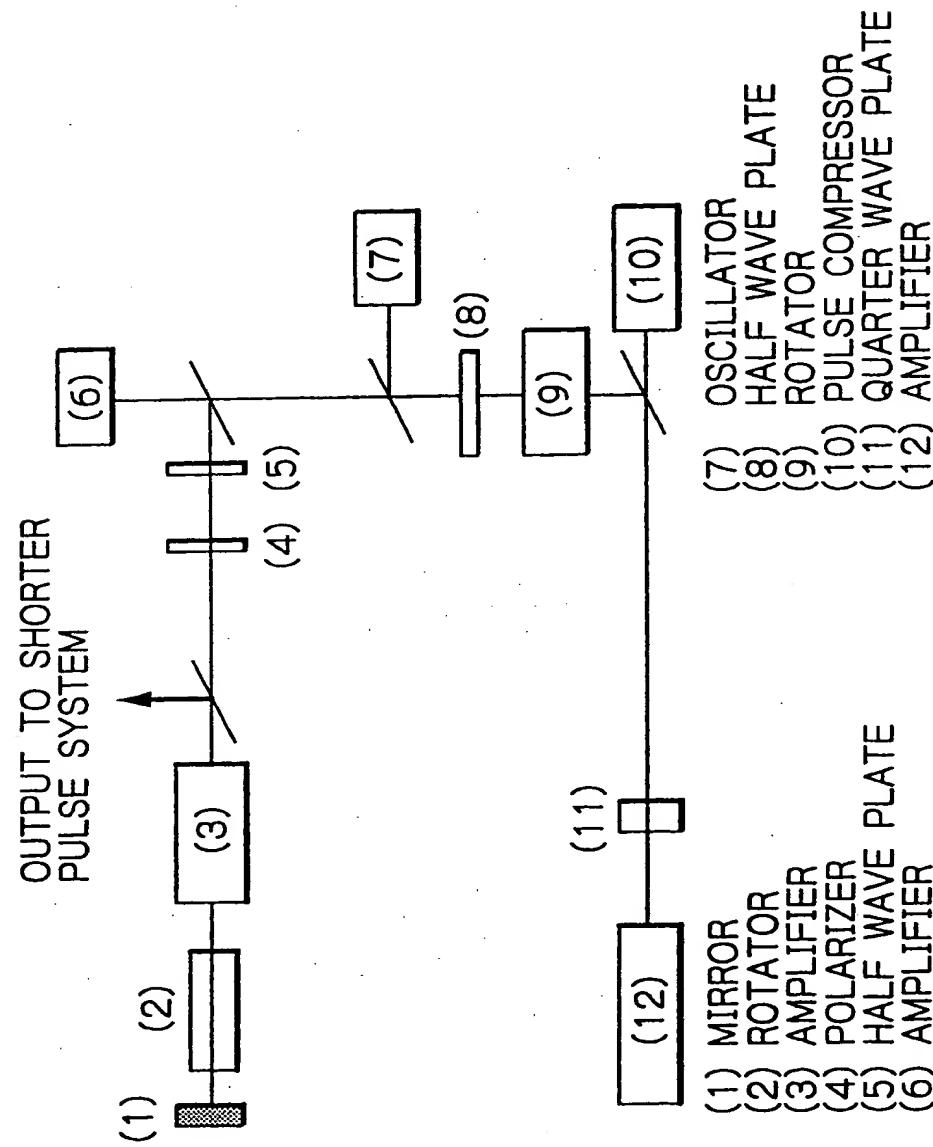




Fig. 4



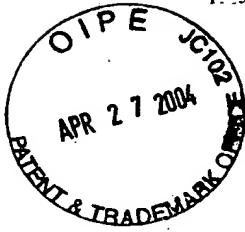


Fig. 6

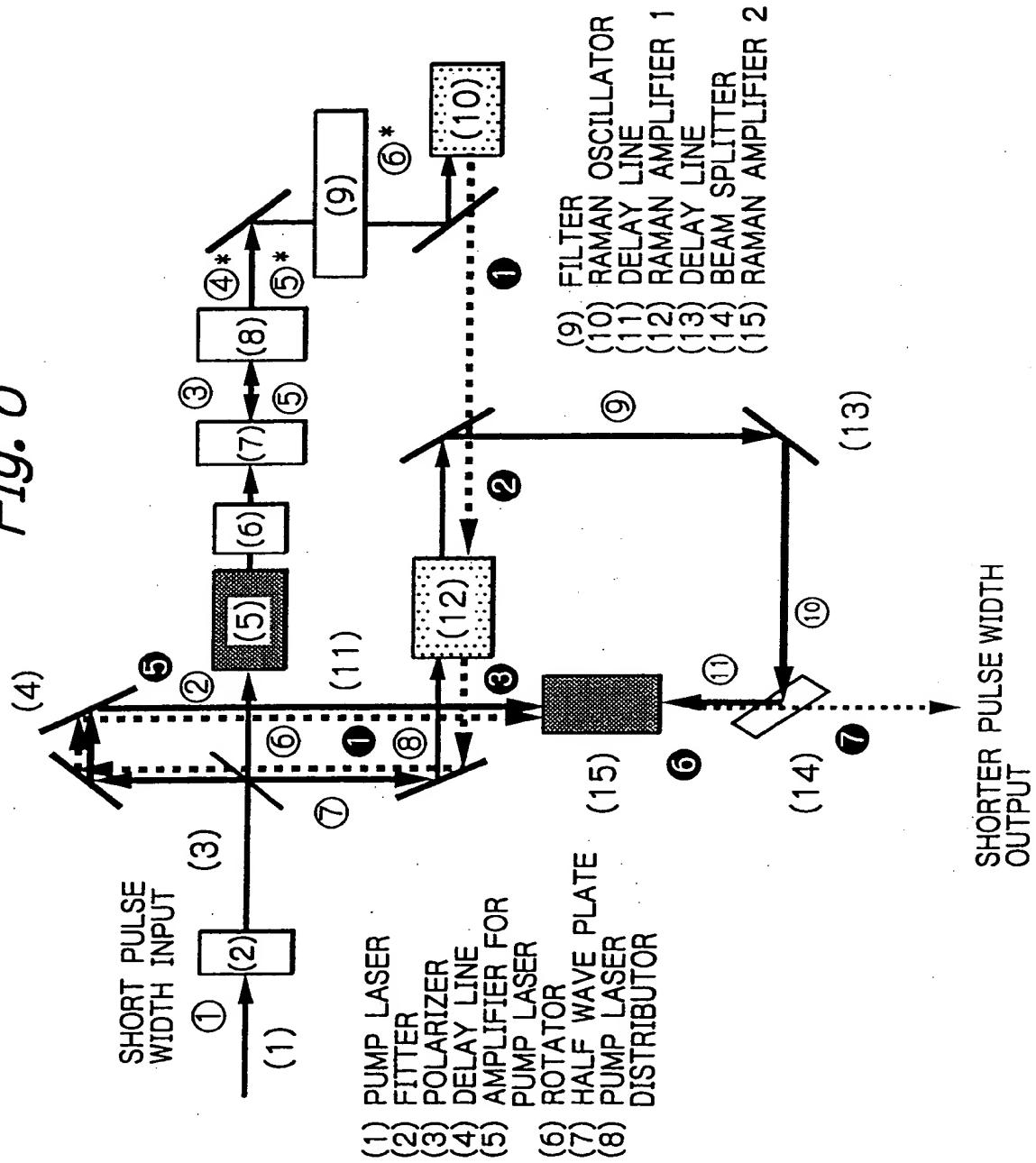
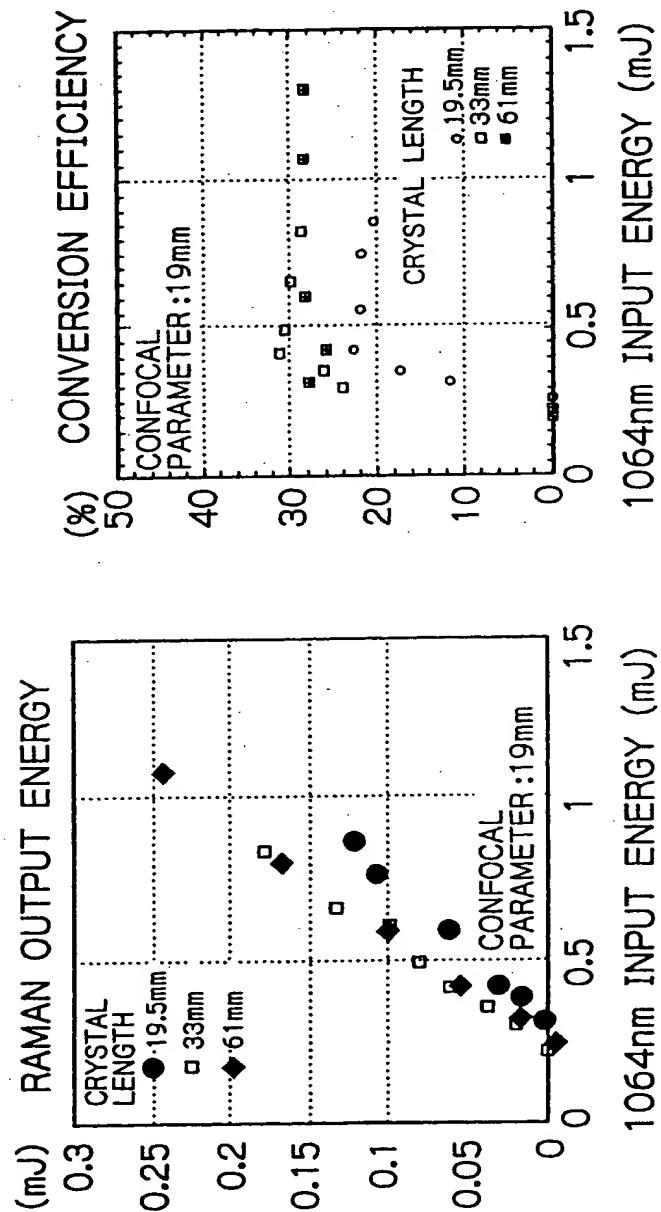


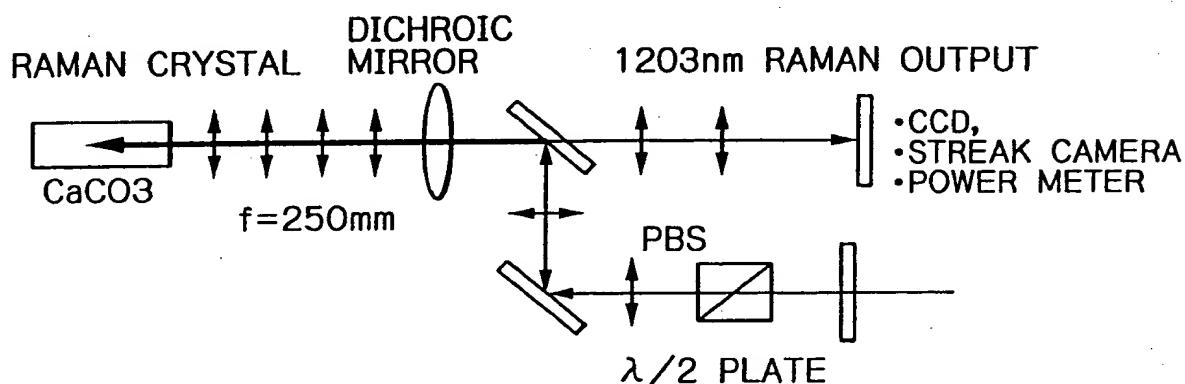


Fig. 7

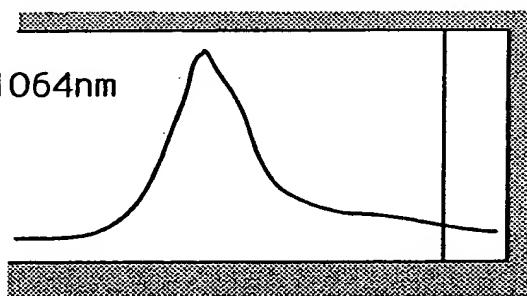


*Fig. 9*

## EXPERIMENTAL SYSTEM

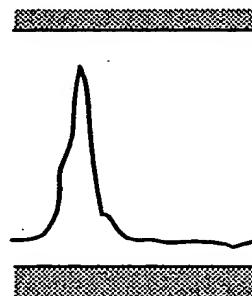


- PUMP LASER PULSE AT 1064nm
- 366ps (FWHM)



- RAMAN OSCILLATOR AT 1203nm
- 49ps (FWHM)

COMPRESSION : 7.5

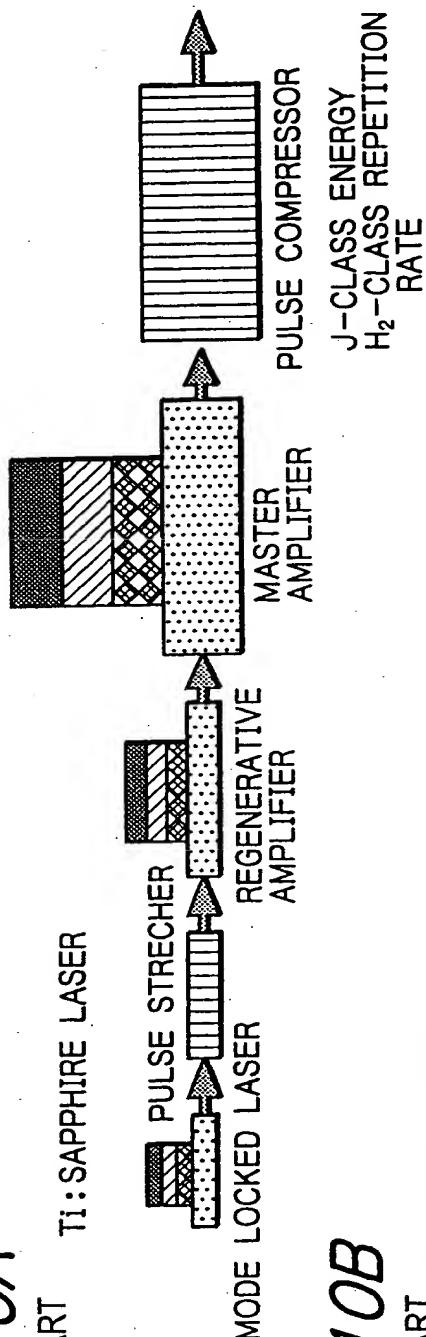




**Fig. 10A**

PRIOR ART      Ti: SAPPHIRE LASER

SEMICONDUCTOR LASER      RAMAN CRYSTAL OR SBS CELL  
 Ti: SAPPHIRE LASER      DIFFRACTION GRATING  
 Nd: SOLID STATE LASER      FIBER  
 NON LINEAR CRYSTAL

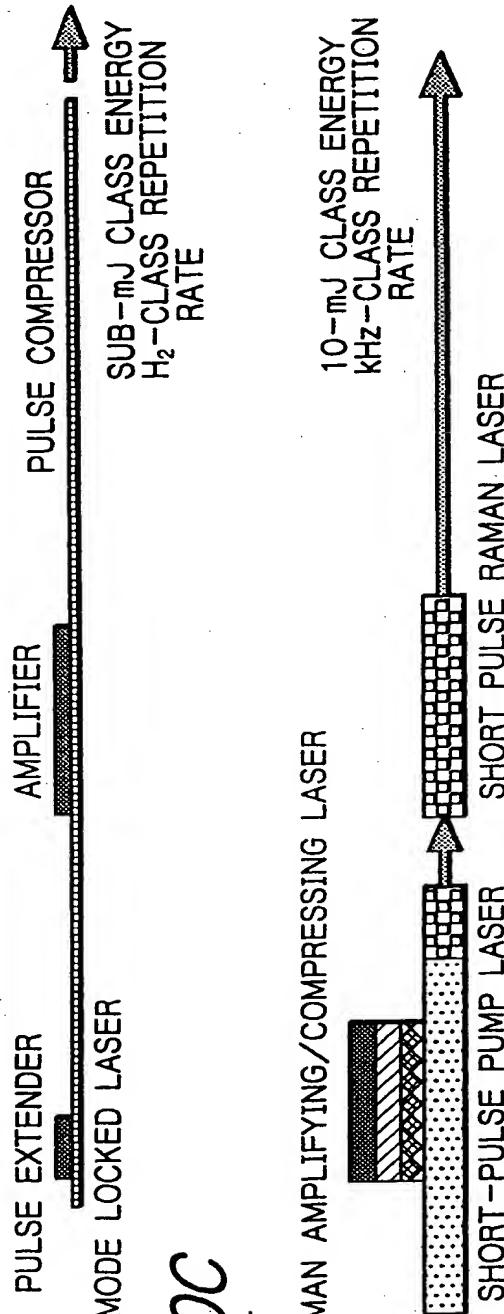


**Fig. 10A**

PRIOR ART      Yb FIBER LASER

**Fig. 10B**

PRIOR ART      Yb FIBER LASER



**Fig. 10C**

PRIOR ART

RAMAN AMPLIFYING/COMPRESSING LASER

